

N.E. Page 74, line 17, after "QQQPPKA" insert --(SEQ ID NO:25)--;

N.E. line 22, before "." insert --(SEQ ID NO:75)--;

N.E. line 28, after "QQQPPKA" insert --(SEQ ID NO:25)--;

N.E. line 30, after "QVQNNKP" insert --(SEQ ID NO:19)--.

N.E. Page 76, line 24, after "QQQPPKA" insert --(SEQ ID NO:25)--.

✓ Page 77, at the end of the specification, before the claims, insert the printed Sequence Listing, to be submitted concurrently herewith, and renumber pages 1-35 of the Sequence Listing as pages 78-112 of the specification.

IN THE CLAIMS:

✓ Please delete claims 1-13.

Please add the following new claims 14-25.

a6
-- 14. A method providing a protective effect *in vivo* against challenge by a meningitis etiologic virus and/or bacteria, said method comprising administering an effective amount of a composition, said composition comprising a monoclonal antibody or binding fragment thereof which binds to a Meningitis Related Homologous Antigenic Sequence shared by viral and/or bacterial meningitis etiological agents.

15. A method according to claim 14, wherein said composition is administered intravenously.

16. A method of treating a patient infected with a meningitis etiological virus and/or bacteria to significantly clear said virus and/or bacteria, said method comprising administering a therapeutically effective amount of a composition, said composition

comprising a monoclonal antibody or binding fragment thereof which binds to MRHAS shared by viral and/or bacterial meningitis etiological agents.

17. A method according to claim 16, wherein said composition is administered intravenously.

18. The method of claim 14, wherein said meningitis-causing organism is a bacteria.

19. The method of claim 18 wherein said bacteria is *H. influenzae* type b.

20. The method of claim 14 wherein said MRHAS is selected from the group consisting of:

(a) the amino acid sequence of the structural polyprotein of a strain of Rubella virus that corresponds to MRHASRV-2 as set forth in SEQ ID NO: 5;

(b) the amino acid sequence of the structural polyprotein of the HIV envelope gp41 protein precursor that corresponds to MRHASHIV-2 as set forth in SEQ ID NO: 16;

(c) the amino acid sequence of the structural polyprotein of a *Hemophilus influenzae* p28 lipoprotein E precursor protein that corresponds to MRHASHI-1 as set forth in SEQ ID NO: 19;

(d) the amino acid sequence of the structural polyprotein of a *Streptococcus pneumoniae* surface protein (SpA) that corresponds to MRHASSP-1 as set forth in SEQ ID NO: 25;

(e) the amino acid sequence of the structural polyprotein of a *Listeria monocytogenes* p60 precursor protein that corresponds to MRHASLM-4 as set forth in SEQ ID NO: 34; and

(f) the amino acid sequence of the native carboxyl septapeptide MCP-1 that corresponds to MRHASMCP-1 as set forth in SEQ ID NO: 37;

(g) the amino acid sequence of a native carboxyl septapeptide MCP-3 that corresponds to MRHASMCP-3 as set forth in SEQ ID NO: 40;

(h) the amino acid sequence of the Structural Polyprotein of a strain of Rubella virus that corresponds to AA102-AA108 of said protein of the M33 strain of Rubella virus as set forth in SEQ ID NO:1;

(i) the amino acid sequence of the Structural Polyprotein of a strain of Rubella virus that corresponds to AA89-AA95 of said protein of the M33 strain of Rubella virus as set forth in SEQ ID NO:1;

(j) the amino acid sequence of the Structural Polyprotein of a strain of Rubella virus that corresponds to AA313-AA319 of said protein of the M33 strain of Rubella virus as set forth in SEQ ID NO:1;

(k) the amino acid sequence of the Structural Polyprotein of a strain of Rubella virus that corresponds to AA103-AA109 of said protein of the Therien strain of Rubella virus as set forth in SEQ ID NO:8;

(l) the amino acid sequence of the Structural Polyprotein of a strain of Rubella virus that corresponds to AA90-AA96 of said protein of the Therien strain of Rubella virus as set forth in SEQ ID NO:8;

(m) the amino acid sequence of the Structural Polyprotein of a strain of Rubella virus that corresponds to AA314-AA320 of said protein of the Thorion strain of Rubella virus as set forth in SEQ ID NO:8;

(n) the amino acid sequence of the Gag Polyprotein of an isolate of the HIV-1 that corresponds to AA145-AA151 of the Gag Polyprotein of the LV isolate of HIV-1 as set forth in SEQ ID NO:11;

(o) the amino acid sequence of the Envelope Polyprotein Precursor of an isolate of the HIV-1 that corresponds to AA655 to AA661 of the Envelope Polyprotein Precursor of the LAV-1a isolate of HIV-1 as set forth in SEQ ID NO:14;

(p) the amino acid sequence that corresponds to AA99-AA105 of the Lipoprotein E Precursor of Haemophilus influenzae as set forth in SEQ ID NO:17;

(q) the amino acid sequence that corresponds to AA1 to AA5 of the Opacity-Related Protein POPM3 of *Neisseria meningitidis* as set forth in SEQ ID NO:20;

(r) the amino acid sequence that corresponds to A123 to AA129 of the Pneumococcal Surface Protein A of *Streptococcus pneumoniae* as set forth in SEQ ID NO:23;

(s) the amino acid sequence that corresponds to AA151-AA157 of the Protein P60 Precursor of *Listeria monocytogenes* as set forth in SEQ ID NO:26;

(t) the amino acid sequence that corresponds to AA181-AA187 of the Protein P60 Precursor of *Listeria monocytogenes* as set forth in SEQ ID NO:26;

(u) the amino acid sequence that corresponds to AA249-AA255 of the Protein P60 Precursor of *Listeria monocytogenes* as set forth in SEQ ID NO:26;

(v) the amino acid sequence that corresponds to A292-AA298 of the Protein P60 Precursor of *Listeria monocytogenes* as set forth in SEQ ID NO:26;

(w) the amino acid sequence of a variant of the chemokine human Monocyte Chemoattractant Factor hMCP-1, that corresponds to AA93-AA99 of hMCP-1 as set forth in SEQ ID NO:35; and

(x) the amino acid sequence of the chemokine hMCP-3, that corresponds to AA61-AA67 of hMCP-3 as set forth in SEQ ID NO: 38.

21. The method of claim 16 wherein said Meningitis Related Homologous Antigenic Sequence is selected from the group consisting of:

(a) the amino acid sequence of the structural polyprotein of a strain of Rubella virus that corresponds to MRHASRV-2 as set forth in SEQ ID NO: 5;

(b) the amino acid sequence of the structural polyprotein of the HIV envelope gp41 protein precursor that corresponds to MRHASHIV-2 as set forth in SEQ ID NO: 16;

(c) the amino acid sequence of the structural polyprotein of a *Hemophilus influenzae* p28 lipoprotein E precursor protein that corresponds to MRHASHI-1 as set forth in SEQ ID NO: 19;

(d) the amino acid sequence of the structural polyprotein of a *Streptococcus pneumoniae* surface protein (SpA) that corresponds to MRHASSP-1 as set forth in SEQ ID NO: 25;

(e) the amino acid sequence of the structural polyprotein of a *Listeria monocytogenes* p60 precursor protein that corresponds to MRHASLM-4 as set forth in SEQ ID NO: 34; and

(f) the amino acid sequence of the native carboxyl septapeptide MCP-1 that corresponds to MRHASMCP-1 as set forth in SEQ ID NO: 37;

(g) the amino acid sequence of a native carboxyl septapeptide MCP-3 that corresponds to MRHASMCP-3 as set forth in SEQ ID NO: 40;

(h) the amino acid sequence of the Structural Polyprotein of a strain of Rubella virus that corresponds to AA102-AA108 of said protein of the M33 strain of Rubella virus as set forth in SEQ ID NO:1;

(i) the amino acid sequence of the Structural Polyprotein of a strain of Rubella virus that corresponds to AA89-AA95 of said protein of the M33 strain of Rubella virus as set forth in SEQ ID NO:1;

(j) the amino acid sequence of the Structural Polyprotein of a strain of Rubella virus that corresponds to AA313-AA319 of said protein of the M33 strain of Rubella virus as set forth in SEQ ID NO:1;

(k) the amino acid sequence of the Structural Polyprotein of a strain of Rubella virus that corresponds to AA103-AA109 of said protein of the Therien strain of Rubella virus as set forth in SEQ ID NO:8;

(l) the amino acid sequence of the Structural Polyprotein of a strain of Rubella virus that corresponds to AA90-AA96 of said protein of the Therien strain of Rubella virus as set forth in SEQ ID NO:8;

(m) the amino acid sequence of the Structural Polyprotein of a strain of Rubella virus that corresponds to AA314-AA320 of said protein of the Thorion strain of Rubella virus as set forth in SEQ ID NO:8;

(n) the amino acid sequence of the Gag Polyprotein of an isolate of the HIV-1 that corresponds to AA145-AA151 of the Gag Polyprotein of the LV isolate of HIV-1 as set forth in SEQ ID NO:11;

(o) the amino acid sequence of the Envelope Polyprotein Precursor of an isolate of the HIV-1 that corresponds to AA655 to AA661 of the Envelope Polyprotein Precursor of the LAV-1a isolate of HIV-1 as set forth in SEQ ID NO:14;

(p) the amino acid sequence that corresponds to AA99-AA105 of the Lipoprotein E Precursor of Haemophilus influenzae as set forth in SEQ ID NO:17;

(q) the amino acid sequence that corresponds to AA1 to AA5 of the Opacity-Related Protein POPM3 of Neisseria meningitides as set forth in SEQ ID NO:20;

(r) the amino acid sequence that corresponds to A123 to AA129 of the Pneumococcal Surface Protein A of Streptococcus pneumoniae as set forth in SEQ ID NO:23;

(s) the amino acid sequence that corresponds to AA151-AA157 of the Protein P60 Precursor of Listeria monocytogenes as set forth in SEQ ID NO:26;

(t) the amino acid sequence that corresponds to AA181-AA187 of the Protein P60 Precursor of Listeria monocytogenes as set forth in SEQ ID NO:26;

(u) the amino acid sequence that corresponds to AA249-AA255 of the Protein P60 Precursor of Listeria monocytogenes as set forth in SEQ ID NO:26;

(v) the amino acid sequence that corresponds to A292-AA298 of the Protein P60 Precursor of Listeria monocytogenes as set forth in SEQ ID NO:26;

(w) the amino acid sequence of a variant of the chemokine human Monocyte Chemoattractant Factor hMCP-1, that corresponds to AA93-AA99 of hMCP-1 as set forth in SEQ ID NO:35; and

(x) the amino acid sequence of the chemokine hMCP-3, that corresponds to AA61-AA67 of hMCP-3 as set forth in SEQ ID NO: 38.